

Navy Environmental Restoration Program Project Update Pearl Harbor RAB, Joint Base Pearl Harbor-Hickam

February 2020

Site Name	Site Description	Project Status
HICKAM		
Vickers Avenue area (ST32)	110 USTs/fuel pipelines in Vickers Avenue area was thought to have contaminated the surrounding soil and fuel contamination was found beneath Onizuka Village housing related to former flight line operations. An investigation was conducted and contamination by the USTs were found to be of no concern, while a treatment system was set up at Onizuka Village.	The Treatment System is planned for shut down since contamination clean up levels were reached, and monitoring of the site will continue.
Munitions Response Area (MRAs – 1X)	Made up of 2 Munitions Response Sites MRS TS001 & TS01A, both Skeet Ranges.	Additional soil and groundwater sampling planned for the site and planning documents are expected in Spring 2020.
SHIPYARD & HALAWA-MAIN GATE		
Underwater Munitions Site in the Pearl Harbor Navy Sea Defense Area	In the early 20th century, the U.S. Army built batteries to protect the shores of Oahu. Historical records indicate as part of training, ordnance was fired from these positions into the Pearl Harbor Navy Sea Defense Area (NDSA). The Pearl Harbor NDSA is situated off Iroquois Point and occupies an approximate area of 2,741 acres;	An investigation to identify munitions items was completed in July 2015 and determined that the existing access restrictions along with warning signs and educational material would be enough to protect humans and the environment. A record of decision was discussed with the regulators, finalized and signed in December 2019.
Bldg. 394	Open air Pearl Harbor Naval Shipyard facility used for lead/sulfuric acid submarine battery maintenance from 1960 to 1991. Concerns are soil impacts from spent batteries.	An investigation was completed in 2014 and a cap was installed in 2015 to prevent contaminant exposure. Additional soil sampling will be conducted to evaluate proposed Land Use Control (LUC) boundary in the Record of Decision (ROD). Discussions with regulators are still ongoing regarding the ROD.
RAA 11, 12, 13 – Halawa main gate GSA	<p>The site is composed of Remedial Action Areas (RAAs) 11, 12, and 13.</p> <p>At RAA-12 a groundwater plume with potential vapor intrusion issues at 4 buildings exists.</p>	<p>The RAA-11/13 No Further Action Record of Decision was completed in 2013.</p> <p>The investigation fieldwork for RAA-12 was completed in 2014, but further movement on this site is pending DOD accepted screening levels. Interim groundwater and vapor intrusion monitoring is being performed to verify that the site is safe for the current use.</p>

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Drain lines – various areas at Pearl Harbor Naval Shipyard (PHNSY) GSA	Storm drain inlets at 17 facility sites within PHNSY GSA identified as potential release sources to storm drain system.	Investigations are ongoing. Planning documents for delineation sampling are anticipated in Fall 2020.
Drain lines – various areas at Halawa Main Gate GSA	Storm drain inlets at five facility sites at Kuahua Peninsula (Bldgs. 449 and 472) and Submarine Base (Bldgs. 651, 660, and 674) identified as potential release sources to storm drain system.	Investigations are ongoing. Planning documents for delineation sampling are anticipated in Fall 2020.
Former PWC Industrial Wastewater Treatment Plant	<p>The former IWTP site is an approximately 0.5-acre parcel located between Lake Erie Street and South Avenue in Joint Base Pearl Harbor-Hickam, Oahu, Hawaii. The site comprises the former Waste Unloading Area and the Collection Sump Area.</p> <p>The former IWTP operated from 1974 to 1998, during which period the facility treated a variety of waste liquids from United States (U.S.) Department of the Navy industrial processes. The waste liquids included electroplating wastewaters that potentially contained PFAS which were utilized as mist suppressants to facilitate the electroplating processes. Incidental releases and surface spills of PFAS contaminated wastewater may have occurred at the site during transport and handling of wastewater.</p>	Final Per- and Polyfluoroalkyl (PFAS) Sampling evaluation recommended additional sampling for groundwater. Planning documents for this investigation is anticipated in Summer 2020.
Transportation Yard – Pearl Harbor Naval Shipyard GSA	Former Shipyard Lower Tank Farm Area occupied by large aboveground fuel storage tanks. Currently used for heavy service vehicle storage and maintenance and large equipment staging.	Regulatory agencies concurred with recommended alternative of Land Use Controls (LUCs) and a record of decision is expected to be finalized in Fall 2020.
PEARL CITY PENINSULA		
Landfill, Waiawa Unit, and Burn Area Site	Pearl City Peninsula Landfill site includes a 67-acre former landfill and a 25-acre wildlife refuge located on the northwest side of the peninsula.	The investigation is ongoing, and a planning document is currently being prepared to conduct additional soil sampling planned for Winter 2020. The existing assessment will be updated to include new data and a report with these results is planned for Summer 2021.

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Former Pearl City Fuel Annex	The Former Pearl City Fuel Annex is a 16.7-acre site on the Pearl City Peninsula (Pearl Harbor, Oahu, HI) that was used to receive, store, issue and inventory bulk fuels. These past activities may have caused potential contamination from product releases, the sandblasting and painting of aboveground storage tanks and associated pipelines, and past tank and sludge and condensate disposal practices.	Removal of contamination was completed in January 2016 and an investigation is planned to find the extents of the contamination. Planning documents for this investigation are anticipated in Summer 2020.
WEST LOCH		
Electrical Component Disposal Area	A practice bomb was discovered on the surface of a debris stockpile of electrical components and a sweep of the site identified mine parts and removal of surface debris was recommended. A Site Inspection confirmed the presence potential munitions concerns.	An investigation was initiated to determine the extent of munitions contamination and any related chemical contamination. A draft reporting on the investigation is anticipated in December 2020.
Former Burn Pit	The Former West Loch Burn Pit is approximately 0.4-acre site that was identified on archival maps, but information on types of items disposed of at the site during its use was not available. There were known munitions items burned at other Lualualei Annex Burn Pit sites, and this site was initially considered to have done the same. Although there are no records of any actual munitions' items burned/buried/disposed or otherwise encountered at this site, an analysis and inspection of the site recommended further investigation to determine nature and extent of any contamination.	An investigation was initiated to determine the extent of chemical contamination in the area due to the historical burning activities. A draft reporting on the investigation is anticipated in December 2020.
WAIPIO PENINSULA		
OSC Herbicide/Fertilizer Mixing Area	The project site is a former pesticide mixing plant, operated by Former Oahu Sugar Company (OSC). Oversight of the project is by EPA, DOH and Navy.	Site is currently under investigation. Sediment sampling completed in May 2019 and the Draft investigation report is planned for Summer 2020.

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Waipahu Ash Landfill	<p>The Waipahu Ash Landfill (WALF) is located on the Waipio Peninsula and covers approximately 41 acres. It is located at the end of Waipahu Depot Street, opposite the former City Waipahu Incinerator. The southern two-thirds of WALF is owned by the Navy.</p> <p>The City & County of Honolulu (the "City") operated WALF from the early 1960's until November 1991. It was used for disposal of municipal solid waste until approximately 1972 when it was then used exclusively for the disposal of municipal waste combustion from the City's Waipahu Incinerator. WALF was closed in 1991.</p> <p>A Memorandum of Understanding (MOU) and an Administrative Order on Consent (AOC) was signed by Navy, Hawaii State Department of Health, Environmental Protection Agency, and City & County of Honolulu under which the City is responsible to conduct an environmental investigation. The announcement of the signed MOU was published in the Federal Register in April 2014.</p>	The investigation is ongoing and currently, additional samples are still being collected. A report summarizing the results is planned for Winter 2021.
Confined Disposal Area	The Confined Disposal Area is located on the South end of Waipio Peninsula. During construction of a project in January 2001, abandoned metal pallets were discovered and the soils in the area were observed to contain metal and paint debris.	A cleanup action is currently underway, and a Removal Verification report is planned for late 2020.
Sandblast Grit	The site consists of two areas that sandblast grit material was reported to be seen. When found, the sandblast grit was believed to have had lead and arsenic that may have contaminated the soil below.	The sandblast grit was removed, and an investigation was initiated to find the extent of the contamination. A report of the investigation findings is expected in 2021.

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VARIOUS AREAS		
Former Aiea Laundry	The Navy operated the former Aiea Laundry Facility until 1998. Dry cleaning operations were conducted at the site from the early 1950s to mid-1970s using the chemical tetrachloroethene (PCE). A new chemical, Stoddard solvent, was then substituted as the primary dry-cleaning solvent until 1994 when a self-contained PCE dry cleaning system was installed. PCE was found to have been released and has migrated off-property. When operations ceased, the buildings were demolished.	The investigation is ongoing, and a planning document is currently being prepared to conduct additional sampling anticipated for Fall 2020. The existing assessment will be updated to include new data and a report with these results is planned for Winter 2021. The existing extraction system will continue to operate to reduce contamination and contamination transport. Periodic monitoring will also continue.
UST BP-1	The UST was first identified on a drawing and thought to have contained gasoline. Approximate location of the tank was discovered during a 2008 renovation and an investigation of the area detected lead in the soil and 3 possible locations where the UST could have been. A dense debris layer was also found, which might have been contributed from the incinerator activities that occurred nearby in the 1930's.	Reporting on the investigation was completed in 2017 and a decision document is currently under review with the regulators.
Various Transformer Sites, Pearl Harbor Naval Complex NPL	Ongoing investigation of 61 transformer sites with potential PCB contamination in outdoor soil and/or concrete. These sites are being investigated for historical maintenance practices of discharging PCB-containing dielectric fluid to the ground.	Additional investigation fieldwork planned for Fall 2020.
Various Sites in Pearl Harbor Naval Complex (PHNC) National Priorities List (NPL) Site	A CERCLA Five-Year review conducted for the PHNC NPL site. The Five-Year Review is required for sites with Land Use Controls to verify that current site conditions (soil/vegetated covers, asphalt/concrete caps, etc.) remain protective of human health and the environment	Five Year Review Report completed in September 2019. The Navy is continuing long-term management to ensure that the CERCLA remedies remain protective of human health and the environment.
Various Non-NPL Sites in JBPHH	A CERCLA Five-Year review conducted for Non-NPL sites. The Five-Year Review evaluated sites with LUCs to verify that current site conditions (soil/vegetated covers, asphalt/concrete caps, etc.) remain protective of human health and the environment.	Five Year Review Report completed in October 2018. The Navy is continuing long-term management to ensure that the CERCLA remedies remain protective of human health and the environment.

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Various NPL and non-NPL Sites in JBPHH	Various areas where Potential Per- and Polyfluoroalkyl Substances (PFAS) may have been released to the environment. Areas include locations where fire-fighting foam was previously used or stored.	Draft planning documents for investigation work were prepared in 2019 and are currently under regulatory review.
NAVFAC HAWAII COMPOUND		
Bldg. X-24 at NAVFAC HI Compound	Bldg. X-24 is a Quonset hut that was used for storage. A small tar spill was observed outside the building as a housekeeping action.	A Site Inspection was completed in May 2019 and an investigation was initiated because lead and arsenic remained at the site. Final investigation planning documents are anticipated in Spring 2020.
MAKALAPA CRATER AREA		
Makalapa Crater Early Disposal Area, Former Pesticide Rinsate Area, Landfill Area, and Clean Fill Area	Site includes 4 areas of concern: (1) Early Disposal Area was used to dispose of dredge spoils from the 1930's to 1940's and underlies other 3 AOCs; (2) Former Pesticide Rinsate Area used for pesticide/herbicide container rinsate disposal from 1950's to 1974; (3) Landfill Area was used for general disposal in 1950's; and (4) Clean Fill Area comprises 5 acres where private contractors disposed of construction debris in mid-1970's.	Site is currently under investigation and additional soil sampling is planned for Spring 2020.

ACRONYMS:

AOC – AREA OF CONCERN

DOD – U.S. DEPARTMENT OF DEFENCE

EPA – U.S. ENVIRONMENTAL PROTECTION AGENCY

GSA – GEOGRAPHIC STUDY AREA

IWTP-INDUSTRIAL WASTE TREATMENT PLANT

JBPHH – JOINT BASE PEARL HARBOR-HICKAM

LUC – LAND USE CONTROL

NAVFAC HI – NAVAL FACILITIES ENGINEERING COMMAND HAWAII

NPL – NATIONAL PRIORITIES LIST

PFAS – PER- AND POLYFLUOROALKYL SUBSTANCES

OSC – OAHU SUGAR COMPANY

PCB – POLYCHLORINATED BIPHENYL

PCE – TETRACHLOROETHYLENE

PHNC – PEARL HARBOR NAVAL COMPLEX

PWC – PUBLIC WORKS CENTER

RAA – REMEDIAL ACTION AREA

UST – UNDERGROUND STORAGE TANK

ROD – RECORD OF DECISION